

# 1N5820 THRU 1N5822

## SCHOTTKY BARRIER RECTIFIERS

勝特力材料 886-3-5753170  
 勝特力电子(上海) 86-21-54151736  
 勝特力电子(深圳) 86-755-83298787  
[Http://www.100y.com.tw](http://www.100y.com.tw)

### FEATURES:

- Low power loss, high efficiency
- High surge current capability
- Low forward voltage drop
- For use in low voltage, high frequency inverters, free wheeling application

### MECHANICAL DATA

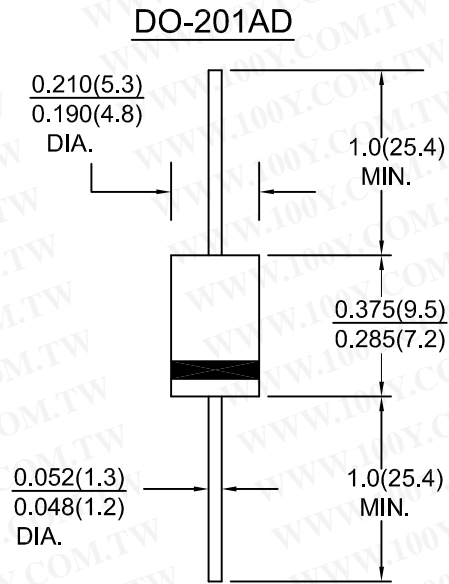
Case : Molded plastic use UL 94V-0 recognized flame retardant epoxy

Terminals : Axial leads, solderable per MIL-STD-202 Method 208

Polarity : Color band on body denotes cathode end

Mounting Position : Any

Weight : 1.12 grams, 0.040 ounce



Dimensions in inches and (millimeters)

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25° C ambient temp. unless otherwise specified.

Single phase, half sine wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20 %.

Characteristic	Symbol	1N5820	1N5821	1N5822	Units
Maximum recurrent peak reverse voltage	V <sub>RRM</sub>	20	30	40	Volts
Maximum RMS voltage	V <sub>RMS</sub>	14	21	28	Volts
Maximum DC blocking voltage	V <sub>DC</sub>	20	30	40	Volts
Maximum average forward rectified current at TL=95° C	I <sub>(AV)</sub>	3.0			Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load(JEDEC Method)	I <sub>FSM</sub>	80.0			Amps
Maximum instantaneous forward voltage drop at 3.0 A (NOTE 1)	V <sub>F</sub>	0.50	0.55	0.55	Volts
Maximum instantaneous reverse current at rated DC blocking voltage (NOTE 1)	I <sub>R</sub>	2.0 20.0			mA
Typical thermal resistance	R <sub>th-JA</sub> R <sub>th-JL</sub>	40.0 10.0			° C/W
Operating junction ,and storage temperature range	T <sub>j</sub> , T <sub>stg</sub>	-65 to +125			° C

NOTE :

1.Pulse test: 300 us pulse width, 1% duty cycle

# RATINGS AND CHARACTERISTIC CURVES 1N5820 THRU 1N5822

